

% Configurations for the Extended Perturbation

```
setupEPer.Nmax           = 200;           %Max steps in the Extended Path solution
setupEPer.Nmin           = 50;           %Min steps in the Extended Path solution
setupEPer.maxDistSS      = 0.001;       %Max distance to SS when determining N
setupEPer.orderAppStart  = 4;           %Order of approximation for the starting values
                                %in the fixed point solver (max 4th order)
setupEPer.fixedPointSolver= 1;           %1 for the Newton-Raphson solver,
                                %2 Newton-Raphson solver with optimal delta,
                                %3 for an LM algorithm that minimizes the residuals
                                %4 for an LM algorithm that minimizes the weighted residuals
setupEPer.JacobianOption = 3;           %1 for using numerical J and numerically
                                % solving the system J*x = -f
                                %2 for using analytical J to solve the system J*x = -f
                                %3 for using analytical J computed recursively to solve
                                % the system J*x = -f
setupEPer.lambda0        = 1e-6;        %Tuining parameter for fixedPointSolver = 3
setupEPer.lambdaBackup   = 1e-2;        %Tuining parameter for the LM algorithm when used as backup
setupEPer.tolf           = 1e-6;        %Tolerance level for optimization problem
setupEPer.MaxIter        = 1D4;         %Maximum number of iterations allowed in the Extended Path
algorithm
setupEPer.residualMax     = 0.0001;     %Max allowed value of a residual - for the hybrid simulator
setupEPer.MexOn          = 1;           %1 For using MEX-files, else 0
```